

REMARKS

Claims 1, 9, 13, 36, and 134 have been amended. Claims 12 and 62-133 have been canceled. Claims 1-11, 13-61, and 134-136 are now pending. The Title of the Invention has been amended to correspond more closely to the pending claims. Applicant reserves the right to pursue the original claims and other claims in this and other applications. Please reconsider the above-referenced application in light of the foregoing amendment and following remarks.

At the outset, Applicant acknowledges with appreciation that claims 22-61, 135, and 136 are in immediate condition for allowance. Applicant also acknowledges with appreciation that claim 12 is in condition for allowance if rewritten into independent form including all of the limitations of the base claim and any intervening claims. Accordingly, independent claim 1 has been amended to incorporate the allowable subject matter of dependent claim 12. Specifically, independent claim 1 now recites, *inter alia*, "a photosensitive region formed approximately less than 0.30 μ away from the at least one isolation trench and the doped region." Claims 2-11 and 13-21 depend from the allowable subject matter of claim 1 and should also be condition for allowance.

Similarly, the allowable subject matter of dependent claim 12 has been incorporated into independent claim 134. Claim 134 recites, *inter alia*, "a photosensitive region formed approximately less than 0.30 μ away from the at least one isolation trench and the doped region."

The Office Action indicates that FIGS. 1-4B should be designated by a legend such as "Prior Art," and requests Replacement Sheets of Drawings. In addition, FIG. 5A should indicate reference numeral 32'. In response, a Submission of Replacement Sheets of Drawings (FIGS. 1-5A) is being filed concurrently herewith. FIGS. 1-4B have

been labeled as "Prior Art," and FIG. 5A now designates numeral 32' in accordance with the Examiner's request. Consequently, the drawing objections should be withdrawn.

Claim 36 is objected to because of an informality. Claim 36 has been amended to correct the perceived informality. Specifically, claim 36 has been amended to depend from claim 35. The objection should be withdrawn.

Claims 1-6 and 134 stand rejected under 35 U.S.C. § 102(e) as being anticipated by U.S. patent no. 6,794,698 ("Perng"). The rejection is respectfully traversed.

As indicated above, claim 1 has been amended to incorporate the allowable subject matter of dependent claim 12. Specifically, claim 1 now recites an image device with a photosensor comprising, "at least one isolation trench provided in a substrate having a first conductivity type, said substrate having a first dopant concentration; a doped region having said first conductivity type surrounding at least a portion of said trench in said substrate, said doped region having a second dopant concentration; and a photosensitive region formed approximately less than 0.30μ away from the at least one isolation trench and the doped region."

Claim 134 has been amended in a similar manner incorporating the allowable subject matter of dependent claim 12. In particular, claim 134 now recites a processing system with a photosensor comprising, "at least one isolation trench provided in a substrate having a first conductivity type, said substrate having a first dopant concentration; a doped region having said first conductivity type surrounding at least a portion of said trench in said substrate, said doped region having a second

dopant concentration; and a photosensitive region formed approximately less than 0.30μ away from the at least one isolation trench and the doped region.”

Perng does not disclose that a photosensitive region is formed approximately less than 0.30μ from an isolation trench and doped region. Claims 2-6 depend from claim 1 and should be allowable along with claim 1 for at least the reasons provided above, and on their own merits.

Claims 7-8 and 14-15 stand rejected under 35 U.S.C. § 103(a) as being unpatentable to Perng and in view of the Examiner’s remarks. The rejection is respectfully traversed.

Claims 7-8 and 14-15 depend from the allowable subject matter of independent claim 1 and should be similarly allowable for at least the reasons provided above, and on their own merits. Specifically, Perng does not disclose that a photosensitive region is formed approximately less than 0.30μ from an isolation trench and doped region. As such, claims 7-8 and 14-15 are allowable over the prior art of record.

In view of the above, each of the presently pending claims in this application contains allowable subject matter and is in immediate condition for allowance. Accordingly, the Examiner is respectfully requested to review and pass this application to issue.

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Respectfully submitted,

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